

Claim

1. (Amended) A frequency converter circuit comprising:
 - a mixer circuit that converts a frequency of an input signal through the use of a local oscillator frequency signal; and
 - an output amplifier made up of a push-pull amplifier provided with,
 - 5 a first transistor to which a predetermined voltage higher than a ground potential is supplied from a collector,
 - a second transistor having a grounded emitter and a collector connected to an emitter of said first transistor, and
 - a voltage drop circuit adapted for providing a potential lower
 - 10 than the potential of a power supply to the collector of said first transistor,
 - wherein said push-pull amplifier being adapted for amplifying a difference signal of two signals respectively supplied from said mixer circuit and entered into the base of said first transistor and a base of said second transistor and providing an amplified difference signal as output from a
 - 15 junction of said emitter of the first transistor and said collector of the second transistor.
2. (Amended) The frequency converter circuit according to claim 1, wherein said voltage drop circuit has a resistor inserted between the collector of said first transistor and said power supply.
3. (Amended) The frequency converter circuit according to claim 1, wherein said voltage drop circuit has a variable resistor inserted between the collector of said first transistor and said power supply.

4. (Amended) The frequency converter circuit according to claim 1, wherein said voltage drop circuit has a diode inserted between the collector of said first transistor and said power supply, said diode having a forward direction directed in the direction from said power supply toward the
5 collector of said first transistor.

5. (Deleted)

6. (Amended) The frequency converter circuit according to claim 1, wherein said mixer circuit is of the double-balance type.

7. (Amended) The frequency converter circuit according to claim 1, wherein said mixer circuit is of the single-balance type.

8. (Amended) The frequency converter circuit according to claim 1, wherein said mixer circuit is adapted to convert said input signal to a signal having a frequency higher than that of said input signal.

9. (Amended) The frequency converter circuit according to claim 1, wherein said mixer circuit is adapted to convert said input signal to a signal having a frequency lower than that of said input signal.